

Noise Data Collection Form

Purpose:

CPWR-The Center for Construction Research and Training has developed a database of noise exposure data that construction contractors can use to predict worker exposure to noise. See: http://ecd.cpwrconstructionsolutions.org

Exposure monitoring data can be incorporated into CPWR's database only if specific information is gathered during the exposure monitoring process. The enclosed "Noise Data Collection Form" was developed to facilitate the collection of the required data and information. To ensure the confidentiality of individuals and organizations that contribute to this database, no personal identifiers, such as individual and company names, contact information, monitoring site location, etc., will be shared with anyone outside of the CPWR research team compiling this database. All forms received will be stored in a locked drawer or on a password-protected computer for the duration of the project and then destroyed.

How you can help:

As a safety and health professional, you can help CPWR compile a robust exposure database by:

- Completing the CPWR Noise Data Collection Form when conducting noise monitoring. Please make sure to fill out all white fields.
- Sending the completed form to CPWR at:

CPWR-The Center for Construction Research and Training Attn: Sara Brooks 8484 Georgia Avenue, Suite 1000 Silver Spring, MD 20910-5618 Phone: (301) 578-8500 Fax: (301) 578-8572 Email: sbrooks@cpwr.com

If you have any questions or concerns, please contact Sara Brooks at (301) 495-8532



Sampling Instructions:

- 1. Calibrate the Sound Level Meter (SLM) or dosimeter both before and after the measurement period following the instructions of the manufacturer.
- 2. If possible, turn off other noise sources.
- 3. Take measurements for the various activities of the equipment. For example, a wood chipper could be measured while idling, while chipping light brush, and while chipping thick branches. Each activity may produce a different noise level.
- 4. Record the duration, the type of noise, the Leq, the Lavg, and the material disturbed.
- 5. The type of noise is steady if the level stays fairly constant, fluctuating if the level changes, and intermittent if there are periods of noise and periods of quiet.

If using a SLM or SLM "app":

- 1. Set time weighting to "slow."
- 2. Set frequency weighting to "A."
- 3. Set the threshold to 80 dBA.
- 4. Take noise measurements with the microphone in the "hearing zone" of the worker. The microphone should be between 3 12 inches from the equipment operator's ear, perpendicular to the ground, and pointing towards the noise source.
- 5. Take at least 3 measurements, each for at least 15 seconds.
- 6. Do not measure or include any noise that is impact/impulse (short burst of noise that is very loud, like a gunshot).

If using a **dosimeter**:

- 1. If possible, select both NIOSH (85/3) and OSHA (90/5) criterion levels.
- 2. Secure the microphone of the dosimeter to the worker's shoulder.
- 3. Take at least 3 measurements, each for at least 15 seconds.

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* CONTACT INFORMATION
Name:
Company:
Email:
Phone:



THE CENTER FOR CONSTRUCTION RESEARCH AND TRAINING

Noise Data Collection Form

* DATE

Note: All fields with an () are required

* MEASURING DEVICE								
Device Type: 🗆 Soun	d Level Meter 🛛 Dosimeter 🗌	Phone type: I iPhone Android Other						
Pre-Calibration \Box	External microphone? 🛛 Yes	Windscreen: 🗆 Yes	Make/model or app name:					
Post-Calibration \Box	□No	□No						
Comments:								

SAMPLING LOCATION							
Site Name:	*Environment:	Temperature	*Wind speed				
	Indoor 🛛 Outdoor	(°F):	(mph):				
Comments:							

Comments:

EQUIPMENT INFORMATION					
*Tool type:	*Manufacturer:				
*Model:	Serial #:				
Accessories used:	*Good working order: 🛛 Yes 🗌 No				

Tool comments:

					****	4
	*Duration	*Type of Noise	*Leq (dBA)	*Lavg (dBA)	*Material Disturbed	*Description of Activity
	(sec)	(steady, fluctuating,				
	(000)	(occury) nuccurating,				
		intermittent)				
1						
2						
3						
4						
4						
5						
5						
6						
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7						
_						
8						
0						
9						

Please return this form to: Sara Brooks sbrooks@cpwr.com CPWR-The Center for Construction Research and Training 8484 Georgia Ave., Suite 1000, Silver Spring, MD 20910 Phone: 301-578-8500 Fax: 301-578-8572